D&D SUBGROUP MEETING MINUTES

September 10, 1996

U-Plant Large-Scale Demo Proposal (Jim Goodenough)

Rick Gonzalez stated that Paul Hart (METC) received 14 large-scale demo proposals and plans to fund 5 of them. It will take METC 2-3 months to review the proposals and decide which ones will be funded.

Jim Goodenough gave an update on the U-Plant large-scale demo proposal. There is FY97 funding available to work on the Canyon Disposition Project. They plan to do a pre-conceptual design, a preliminary risk assessment, and a rough order-of-magnitude cost estimate. METC was asked for $125K seed money to do a technology assessment screening process using technical experts (similar to the C-Reactor TAS Team).

The RIFS process will start in FY97, including characterization in the canyons. Candidate characterization technologies were identified by PNNL. The objective is to understand the location and extent of contamination in the canyon facilities. U-Plant is under the surveillance and maintenance process now. BHI "owns" it and manages it. No end-point criteria or closure criteria have been set.

Update on C-Reactor Interim Safe Storage Project (Steve Pulsford)

At the July 24-25 meeting, the TAS list was screened from 23 to 13 technologies. The Project has procured a portable power and lighting system to handle all the D&D activities, including the technology demos. The Draft Project Plan has been completed, and the 90% Final Design is now being reviewed.

One key problem is decontamination of fuel storage basins, including the asphalt emulsion sprayed on the concrete surface. Technologies are needed to decontaminate the asphalt, the paint beneath the asphalt, and the concrete beneath the paint. One possibility is microwave scabbling. Two other technologies are also under consideration.

The C-Reactor Project is focused on the problems to be solved rather than on the solutions. This project could be used as a prototype for the Hanford Technology Deployment Center. The Deployment Center could learn from C-Reactor and BHI's procurement process.

The $16 million D&D Focus Area program will have about $9 million carryover this year! It appears that Hanford will only be getting $3.5 million for C-Reactor rather than the $5 million requested, although this budget figure is currently being investigated.

Status Report on D&D Technology Needs Assessment/Next Actions (Jackie Schmid/Shannon Saget)

Jackie Schmid has put last year's D&D technology needs into the new format requested by DOE-HQ, including the addition of the relevant ADS and RDS numbers. Subgroup members were asked to review her handout and suggest whom to contact for more information. Kim Koegler (BHI) is currently working on the EM-40 D&D technology needs.

Rick Gonzalez stated that DOE-RL is not planning to do any cutting or decontamination at B-Plant, so it should be removed from the list of applicable facilities for the cutting and decontamination technology needs.

Shannon Saget suggested that we need to consider splitting our D&D technology needs into smaller packages because they were aggregated too much last year. Rick disagrees. An offline meeting between Rick, Shannon, Jackie, Tom Anderson, and George Kulynych was suggested to resolve this issue.

10-Year Plan and Strategy for D&D (Group Discussion)

Each Hanford Program filled out worksheets for their portion of the Site's 10-Year Plan, but only EM-40 listed their technology needs. The Management Council asked each Program to include their technology needs, and the STCG Subgroup leads were involved in the process. Linda McClain recently presented the Environmental Restoration technology needs to Al Alm. She did a great job describing current technology demonstrations and future plans.

How does the 10-Year Plan change our D&D strategy? We're now doing all the reactors instead of putting them off until much later. It was mentioned that we should be looking at the life-cycle costs of everything we're doing.

Rick mentioned that EM-60's vision is that they will be out of a job at Hanford by 2006.

BNFL Experience in Cleaning Plutonium Facilities (Video)

Rick showed a 12-minute video on BNFL instrument technologies. BNFL has more than 20 years' experience in D&D. The video described several key technologies:

- RadScan 600 - gamma scanning
- TRU D-400 - rapid, accurate measurement of TRU waste
- DISPIM - plutonium characterization.

Overview of B&W's D&D Experience (George Kulynych)

B&W is owned by McDermott International, Inc. The B&W Hanford Company is part of B&W's Federal Services, Inc., which is part of the B&W Government Group. George provided an overview of several of B&W's major D&D projects in the U.S. and Estonia. He mentioned that the Russian nuclear facilities are an order of magnitude worse problems than Hanford has.

Wrap-Up and Plans for Next Meeting

Shannon mentioned that the B-Cell Laser Demonstration is getting a free laser for 6 months from Lumonics (formerly Hobart). DOE-RL must purchase an off-the-shelf end effector to use with the laser.
Linda Fassbender announced that Jackie Schmid was getting married on Saturday, September 14. The group wished her well.

The next D&D Subgroup meeting will be held on October 1 from 8:00 a.m. - 12:00 p.m. in the EESB Stampede Room. Gary Ballew requested some time on the agenda to discuss the STCG Subgroup Communications Plan. Please send other proposed agenda items to Linda Fassbender.

Meeting Attendees

Gary Ballew (ETP)
Greg Eidam (BHI)
Linda Fassbender (PNNL)
Rick Gonzalez (DOE-RL)
Jim Goodenough (DOE-RL)
Bob Julian (Ecology)
George Kulynych (BWHC)
Loni Peurrung (PNNL)
Steve Pulsford (BHI)
Shannon Saget (DOE-RL)
Jackie Schmid (WHC)